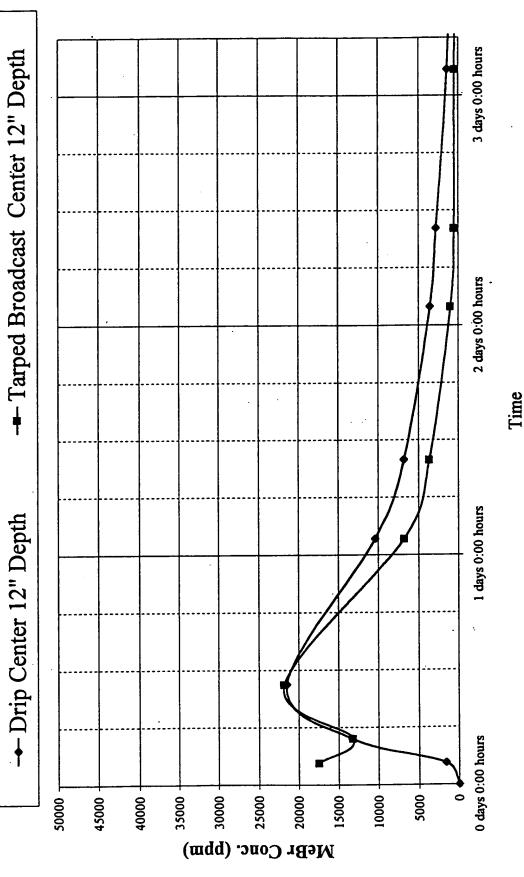
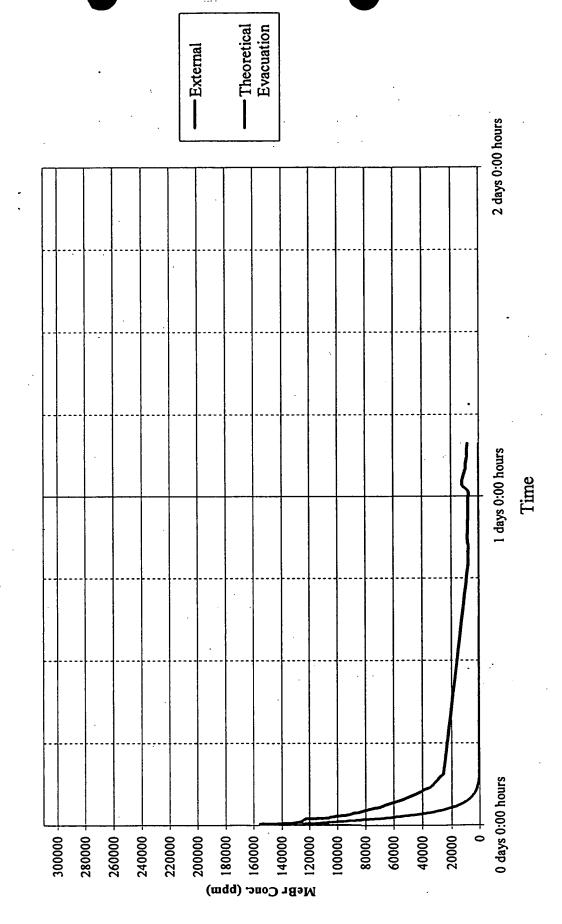
1)





MeBr Headspace Conc. vs. Time

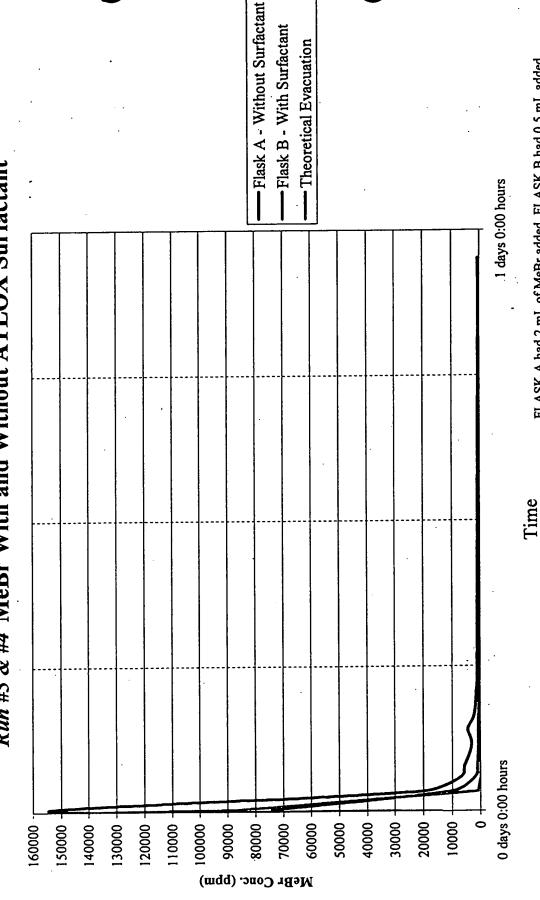
Run #1 MeBr + ATLOX Surfactant + Water



F19.26

F19.2c

Run #3 & #4 MeBr With and Without ATLOX Surfactant MeBr Headspace Conc. vs. Time



FLASK A had 2 mL of MeBr added, FLASK B had 0.5 mL added.

Treatment of deflexent tree of tubing with Chlaropicain your change

Tubing Type	Immediate Rx	Wall Thickness after 15 Hours	Elasticity/ Strength after 15 Hours	General Appearance Integrity After 15 Hours
Black Seamless Latex	none	no Change	maintained	no effect
FEP Teflon	none	no. Charge	maintained	no effect
Nalgene 860 Tissue Culture Grade	none	no change	maintained	sticky
Manosilt	none	noichange	maintained	no effect
Tygon R3603	none	reduced thick-	reduced slightly	appeared melted
Nalgene 180 Premium PVC	none	reduced thickm	reduced slightly	slightly opaque, appeared melted

F14.4.

Nematode Efficacy - Chloropicrin of Various EC Percentages

Drip Application

Summary of Results

				OI ICC				
			Nen	natode Spe	ecies _p			
Cylinder #	Root Knot (Meloidogyne)	Dagger (Xiphinema)	Citrus	Pin	Root Knot (Meloidog yne)	Dagger (Xiphinem a)	Citrus	Pin
		Counts				— Adjusted	Counts -	<u> </u>
1	5	3	168		15	9	504	0
2	22	4	216	28	66	12	648	84
3	1	2	456		3	6	1368	0
4	49		338	9	147	0	1014	27
5	0		7		0	0	21	0
6	23		40	4	69	0	120	12
7	112		80	14	336	0	240	42
8	29		79		87	0	237	0
9	0		114		0	0	342	0
10	16		72		48	0	216	. 0
11	22		160		66	0	480	0
12	29		87		87	0	261	0
13	115		136		345	0	408	0
14	16		30		48	0	90	0
15	22		31		66	0	93	0
16	79		82		237	0	246	0
17	15		17		45	. 0	51	0
18	30		81		90	0	243	0
19	69		109		207	0	327	0
20	26		68		78	0	204	0

^{§ 33%} extraction efficiency, measured values multiplied by 3

no counts were obtained for Ring nematode statistical analysis.

Hard Start than the seal after the All them and that the start the start that the start that the start that

Chloropicrin EC - Lab Tests for Weed Seed Mortality PICIWEED

Weed Seed:	Weed Seed: Innomithes retrollering		Treatm	Treatment Date = 10/28/1999	10/28/1999		Number of Seeds/Dish =	eds/Dish =	100											
				See	Seed Germination	ation Co	Counts							(% Mortality)	tality)					
			Date	Date of Count = 11/5/1999	11/2/1999		Date	Date of Count = 11/9/1999	11/9/1999									_		_
		Elapsed 1	Time from 1	Elapsed Time from Treatment =	8 Days	Elapsed 7	sed Time from Treatment =	reatment =	12 Days					-						
													- Is	st Count				2nd Count	unt % Mortality	tality
	Treatment		181	1st Count			2nd Count	ount			1st Count	unt	3	at 8 Days		2nd Count	Ξ	at 12 D	at 12 Days Above Control	ontrol
Seed Age	Treatment Solution	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2 Rep 3	_	Rep 4	Mean	Rep I F	Rep 2 Rep 3	cp 3 Rep 4	4 Mean		
NEW SEED	NEW NEED Control 0 ppin, 0% Emulsifier	26	29	15	20	75	99	55	75	74%	71%	85%	%08	78%	25%	34% 4	45% 25%	% 32%	%0	
NEILNEED	0 ppm, 5% Enudsifier		6	9	14	15	16	21	32	87%	%16	%06	%98	%68	85%	84% 7	%89 %61	%62 %	41%	9
NEWNEED	0 ppm, 50% Emulsifier	٥	۲,	2	4	2	4	16	9	%4%	%86	%88	%96	94%	%06	8 896	81% 94%	%06 %	%85	%
NEIL MED	NEW NEED 500 ppm, 5% Emulsifier	Э	~	-	4	0	3	_	7	%001	%16	%66	%96	%86	%001	0 % 0	%96 %66	%86 %	<u> </u> 	10/
NEW NEED	NEW NEED 500 ppm, 50% Emulsifier	0	۲,	0	7	۳.	9	3	7	7%	%86	%00I	%86	%91	97%	01% 0	97% 93%	%56	63%	%
N.II' SELD	N.H.W.L.D 1000 ppm, 5% Emulsifier	-7	-	-	٥	6	2	-	-	96%	%66	9,066	9001	%66	9616	0 %86	906 966	% 61%	(5%	:00
AER NEED	NEIT SEED Down ppm, 50% Emulsifier	0	٥	Ö	٥	0	0	0	0	100%	100%	100%	100%	100%	ICHI6.	1000	LINES TINES	100%	%89	25
	では、 では、 では、 では、 では、 では、 では、 では、																			Contract of
OTD SBBD	OLD SBBD Control 0 ppm, 0% Emulsifier				1000		1.7%	\$10 F. C.	The part of the	41.484	¥ 197.	17.7%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 3		-	<u> </u>	-		
OLD SBED	OLD SBBD 0 ppm, 5% Emulsifier			Same Age	Sections in	140 C. ME	1. 4. 15.	1.4	Section!	18. (1. (A.))	が 湯 事を	AR A SCHOOL		A. P. S. S. S.	7.77	1 7 7			. Siktin 18/4	Institution of
OLD SBBD	OLD SEBD Oppm, 50% Emulsifier	Service Contraction	A. 1878	A. S. W. Beach	A. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	4 A	The Part of the	金さな	SHOOT SHOW	STATE	2000	Sec. 18.	THE PROPERTY OF THE PARTY OF TH		事業が	Carlo Carlo	少さ を深	在江南中間 在八人里下 医野花 是在京都 高度明日	基	
OID SBBD	.OLD SBBD. 500 ppm, 5% Emulsifier Entrant Entrant Entrant Extract Extract Extract Entrant Entrant	H. Cox.	******	1. S. S. A. A.	A. A. A. A.	A MARKADA II	S. S. Control				を変を	多多多次		(0.000)	(1) (A) (A)	通過看 珍	STATE OF STA	Stre 6 siete se		
: 010 SBBD :	:OLD SEBD (S00 ppm, S0% Emulsifica 排水料。写话学程的 [四十四年] 法结束的 [经验证的	15 lb 24 lb	in Substitute	N. C.							が発展			· 不是	W 1888	经营	を表する	7,000	2.00	
· OTO SBBD ·	·OLD SBBD · 1000 ppm, 5% Emulaifice its indien its still be with the part of	- Sec. 6.25	A. California	4											A 100 100	A 25 45	ENG SEA	1. 16. C.	100	
: OLD SRBD ::	:: OLD SRRD :: 1000 ppm, 50% Emulsind 100 ppm, 50		2 2 2																	

NEW SEED Anova: Single Factor

HIGHLY SIGNIFICANT DIFFERENCE @ 99%

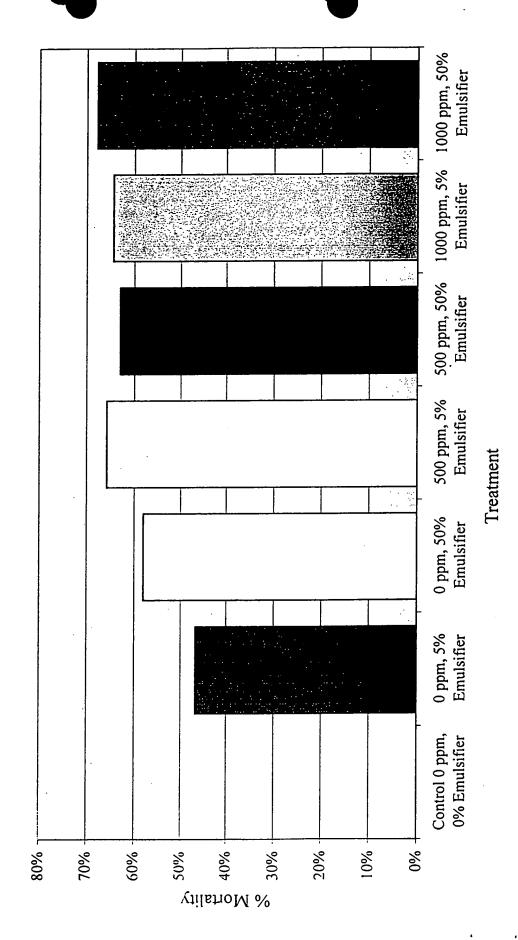
0.79 0.0090807 0.8025 0.004425 0.98 0.000333 0.9525 0.000425 0.9675 0.0014917 3.16 3.16 3.82 3.82 3.87 SUMMARY

MS F P-value F crit 6 0.2321 74.841654 4.55E-13 5.880793 21 0.00311 1.3926 g ANOVA Source of Variation Between Groups Within Groups

1.4578

Total

% Mortality of New Weed Seeds Over Control Pigweed



7 2.5 3 Chloropicrin EC - Lab Tests for Weed Seed Mortality
WHITE SWEET
CLOVER
Weed Seed: Methorus allia
Trenmen Date = 1028/1999

	_	-		_	_						-	_	Ť	7	_	_	T	7	τ-	_	┯	7
				% Mortality	Above	Control		%0	2%	4%	%5	2%	7%	4%	-3%	%0	3%	13%	7%	11%	%8	
					2nd Count	at 12 Days	Mean	%16	93%	%56	%96	%96	%86	%56	%44	%08	83%	93%	%98	%16	88%	
							Rep 4	94%	%16	98%	386	95%	%001	95%	73%	%19	73%	%98	%16	%88	74%	
						2nd Count	Rep 3	82%	%16	93%	94%	%66	%16	%66	%68	74%	76%	95%	94%	2001	%96	
	,					2nd	Rep 2	%68 8	93%	36%	%16	986	%%	87%	75%	92%	%88	%86	82%	%16	85%	
	(% Mortality)	_					Rep 1	%96	% %	94%	926,	93%	%66	%001 100%	70%	%76	94%	93%	75%	77%	%001	
	W %)				1st Count	at 8 Days	Mean	%16	93%	%56	%16	%86	%66	%66	%06	83%	%68	%56	94%	%16	92%	
							Rep 4	94%	%16	%56	% 66	%86	%0°	97%	%16	%19	85%	%16	%56	88%	84%	
						lst Count	Rep 3	85%	%16	%٤'6	%96	%66	%16	100%	%96	%91	87%	%16	%26	100%	%46	
						lst (Rep 2	%68	866	%9 6	%16	%86	%86	%86	%68	63%	% 06	%86	93%	%26	%88	
							Rep 1	%96	%06	%56	%56	%56	% 6	100%	% \$8	%\$6	%96	63%	%68	11%	%001	
00 100		Date of Count = 11/9/1999	12 Days				Rep 4	9	6	\$	7	~	٥	S	1.2	39	27	14	6	12	97	
eds/Dish =		of Count =	reatment =			2nd Count	Rep 3	15	3	7	9	-	3	-	11	56	24	5	9	0	4	
Number of Seeds/Dish =	unts	Date	Elapsed Time from Treatment = 12 Days			2nd (Rep 2	=	7	4	3	7	7	13	25	8	12	2	15	3	18	
ź	ation Co		Elapsed T				Rep 1	4	0	9	\$	7	1	0	30	œ	9	7	25	23	0	
Ireatment Date = 10/28/1999	Seed Germination Counts	Date of Count - 11/5/1999	8 Days				Rep 4	9	6	5	-	2	0	3	6	33	82	9	5	12	16	
1 Date	Seed	f Count	atment .			ount	Rep 3	2	3	7	4	1	3	0	4	24	13	3	2	٥	~	
Treatme		Date o	Elapsed Time from Treatment			1st Count	Rep 2 Rep 3	=	7	4	3	۲.	۲,	2	=	7	2	7	7	~	13	
			Elapsed Ti				Rep 1	4	٥	~	~	2	-	0	~	~	4	,	=	23	•	
weed seed: "Granten and		-				I reatment		Control 0 ppm, 0% Emulsifier	NEW NEED 0 ppm, 5% Emulsifier	0 ppm, 50% Enutsilier	NEW NEED 500 ppm, 5° - Enulsifier	NEW NEED 500 ppm, 50% Emulsifier		1000 ppm, 50% Emulsifier	 OLD NEED Control 0 ppm, 0% Emulsifier	OLD NEED Oppm, 5% Enulsifier	OLD SEED 0 ppm, 50% Emulsifier	OLD SEED 500 ppm, 5% Emulsifier	OLD SEED 500 ppm, 50% Emulsifier	1000 ppn, 5% Enulsifier	OLD SEED 1000 ppin, 50% Emulsifier	
weed seed.							Seed Age	NEW SEED	NEWNERD	NEW SEED	NEW SEED	NEW NEED	NEW NEED	NEW SEED	OLD SEED	OLDSEED	OLD SEED	OLD SEED	OLD SEED	OLDSEED	OLD SEED	

NEW SEED Anova: Single Factor SUMMARY				No Significance	nce
Cronos	Conu	Sun	Average	Variance	

No Significance

OLD SEED Anova: Single Factor

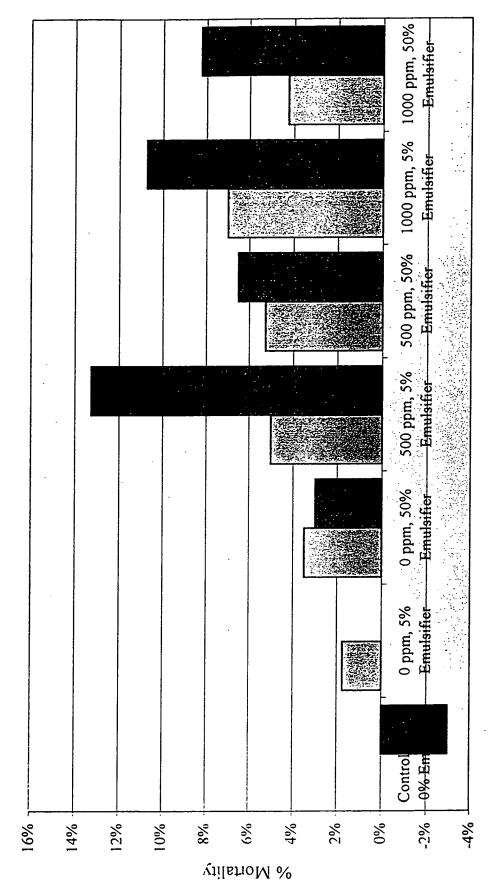
Sount Sum 4 3.64 4 3.71 4 3.78 4 3.84 4 3.85 4 3.85	₹
4 4 4 4 4 4	3.84 3.74 3.78 3.84 3.85 3.85 3.85

ANOVA						
Source of Variation	SS	ō	SW	u	P-value	Fort
Between Groups Within Groups	0.013088 0.025525	8 £	0.002181	1.7943193	0.14899	2.572712
Total	0.038811	2				

Groups	Count	Sum	Average	Verlance
Row 1	4	3.07	0.7875	0.00709167
Row 2	4	3.19	0.7975	0.022825
Row 3	4	3.31	0.8275	0.009825
Row 4	4	3.72	0.83	0.0028
Row 5	4	3.45	0.8625	0.007025
Rowe	4	3.62	0.805	0.0107
Row 7	4	3.52	0.88	0.01466667

ANOVA						
urce of Variation	SS	Įρ	WS	L.	P-value	FOI
Between Groups Within Groups	0.08197	21	0.01388	1.27866102	0.30875	2.57271

% Mortality of New Weed Seeds Over Control White Sweet Clover



Treatment

Chloropicrin EC - Lab Tests for Weed Seed Mortality WILD MUSTARD

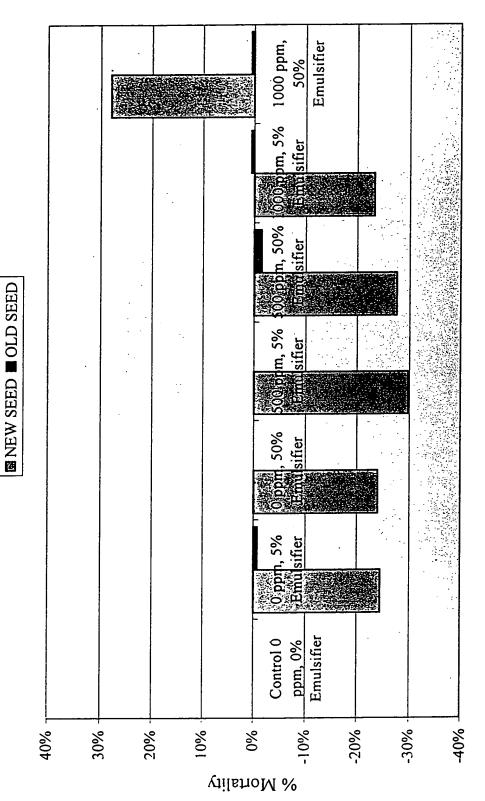
ed: <u>Intersiver kerber</u>

Weed Seed: Brassica kaher		Treatn	ent Date =	Treatment Date = 10/28/1999	Ž	Number of Seeds/Dish =	eds/Dish =	100											
			Š	Seed Germination Counts	ation Cor	ınts							(% Mortality)	tality)					
		Date	of Count	Date of Count = 11/5/1999		Date	Date of Count = 11/9/1999	6661/6/11									_		
	Elapsed 7	lime from	Elapsed Time from Treatment	8 Days	Elapsed T	ime from T	Elapsed Time from Treatment	12 Days											
													1st Count				2nd Cour	_	% Mortality
Treatment		ısı	1st Count			2nd C	2nd Count			let Count	in the	? &	at & Dave		220 0000	•	of 12 Days	_	Vouve Constrol
Seed Age Treatment Solution	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	_	Rep 4	Mean	Rep 1	Rep 2	Rep 3 Rep 4			
\neg	35	38	40	33	09	51	49	\$4	<u></u>	1	╟	%19	64%	╟	╊╌	╢	L	ļ	8
7	34	29	32	78	80	78	75	79	%99	71%	├	72%	%69	30%	22%	╀	Ļ	L	-25%
\neg	28	31	50	32	18	11	92	82	72%	%69	┝	%89	%0%	<u>%</u>	23%	╀	╀	L	.240%
Т	¥.	91	35	36	85	72	16	88	%99	84%	%59	64%	%02	%81	38%	╀╌	ļ.	L	.30
7	40	76	2	24	83	76	80	88	%09	74%	%06	%91	75%	17%	24%	+	-	<u>L</u>	-28%
T	30	=	<u>~</u>	22	18	80	70	76	20%	%69	82%	78%	75%	% 61	20%	30% 24	24% 23%	<u> </u>	-23%
NEIT SEED 1000 ppm, 50% Emulsifier	~	=	3	41	36	13	12	41	%69	%68	%/6	%65	%62	64%	87%	88% 89	39% 75%	L	28%
		Date	Date of Count =	_									Ī				ı		
B	Elapsed	Time from	Elapsed Time from Treatment =	11 Days															
T	0	-	0	-	0	1	0	-	100%	%66	%001	% 66	100%	100%	% 66	100%	100%	L	%0
٦	7	~	٥	-	2	2	0	_	%86	%86	3001	%66	%66	%86	%86	┡	Ļ	Ļ	.1%
T	-	٥	٥	-		0	0	- 1	%66	100%	100%	%66	%001	%66	%00	%001	%001 %6		%
7	7	٥	٥	٥	7	0	0	0	%86	100%	100%	200%	%001	%86	%001	100%	L	L	%
\neg	-	7	~	٥	3	2	3	0	%16	%86	92%	100%	%86	%16	%86	01 %46	L	L	-2%
-	٥	٥	٥	٥	0	0	0	0	%001	100%	100%	%00I	100%	% 001	%00I	100%	100% 100%	L	%
OLD SEED 1000 ppm, 50% Enulsifier	0	٥	٥	0	0	0	0	0	100%	%00I	%001	%001	100%	%0 <u>-</u>	╁	₽	L	L	80
NEW CEEN												1				4	4		
Anova: Single Factor			•	SIGNIFICANT DIFFERENCE @ 99%	r OFFEREN	CE @ 88%			OLD SEED Anova: Single Factor	E.D e Factor		¥	SKGNIFICANT DIFFERENCE @ 95%	MFFEREN	CE @ 95%				
SUMMARY									, ,										
Groups	Count	Sum	Average	Variance	_				Groups	Count	Sum	Average	/arianca						
	4	1.86	Ĭ	1					Row 1	4	æ	I	3.333E-05						
ROW 2	4 4	0.88	0.22	0.00048667					Row 2	₹.	3.85		9.1867E-05						
Row 4	•	0.67	Ŭ						K083	.	 8. 6.	0.995	3.3333E-05 ·						1
Row 5	4	0.78		0.00153333					Row 5	• →	3.82	0.98	0000						
Row6	4	0.93	0	0.00249167					Row 8	•	4	} -	0						
Row 7	4	2.88	0.745	0.02296897				•	Row7	7	4	-	°						

Source of Version	ě	ļ	9,1	1	0.101.0				ANOVA			-							
Between Groups	1.073938	ı	P	31,5201258	1	3.811749		Source of	Source of Variation	35		WS	A LAKLESE O DOSOL SETTE	P-value	Fcrit				
Within Groups	0.11925	~				!		ΑN	Within Groups	0.00137	7 %		6	0.02324	77767				
Total	1.193186	27							Total	Total 0.00261	27								
			•		i			•											

Œ

% Mortality of New Weed Seeds Over Control Wild Mustard



Treatment

TC343.3 Chloropicrin EC - Lab Tests for Weed Seed Mortality YELLOW

NUTGRASS

Treatment Date = 10/28/1999 Weed Seed: Cyperns exentinus

	_		_	_			4				-	-	-	_	7		_	-	_	_	7	7	-	_
		_		,	Mortality	Above	Control		%0	%0	%0	%1:	%1:	.1%	%0	2		%0	%0	%0	%0	%0	%0	%0
						2nd Count	at 12 Days	Mean	%001	%001	100%	%66	100%	%66	100%			100%	100%	100%	100%	100%	100%	100%
								Rep 4	%00I	%00 1	%00.	95%	986,	%	↓_	-		7001	% %	%00!	%00I	%00!	%00!	%0 <u>-</u>
							2nd Count	Rep 2 Rep 3	%001	100%	%001	100%	,001	:000	300			100%	3001	%00I	%00I	% 001	%00 1	%001
							2nd (Rep 2	%001	%001	%00I	%00I	%00I	98%	300%		:	%001	100%	%001	100%	100%	100%	%001
	(% Mortality)	•						Rep 1	%001	%001	%00I	100%	%001	%66	%001			%001	100%	100%	100%	%00I	%00I	%001
	% %	,				1st Count	at 8 Days	Mean	100%	100%	100%	100%	100%	%00I	100%			100%	100%	100%	100%	100%	100%	100%
								Rep 4	%001	100%	%00I	%001	%001	100%	3001			100%	100%	% 001	% 001	%001	%001	%001
							ount	Rep 3	%001	% 001	%001	%001	100%	100%	%001			%001	100%	%00I	%001	%001	%001	%001
							1st Count	Rep 1 Rep 2	% 001	%001	%001	100%	%001	100%	100%			%001	100%	100%	%001	%001	100%	%001
							•	Rep 1	%001	100%	%001	100%	100%	%001	100%			%001	100%	% 001	%001	100%	100%	100%
100		Date of Count = 11/9/1999	12 Days					Rep 4	0	0	0	\$	2	0	0			0	0 4	0	0	0	0	0
ds/Dish =		Count =	eatment =				ount	Rep 3	0	0	0	0	0	0	0			0	0	0	0	0	٥	0
Number of Seeds/Dish =	nts	Date	ne from Tr				2nd Count	Rep 2	0	0	0	0	0	2	0			0	0	0	0	0	0	0
Nur	tion Counts		Elapsed Time from Treatment - 12 Days				•	Rep 1	0	0	0	0	0	-	0			0	0	0	٥	0	0	•
0/28/1999	Seed Germination	1/5/1999	8 Days					Rep 4	0		0	0	0	0	0	Date of Count = 11/8/1999	11 Days	0	0	0	0	٥	-	0
Treatment Date = 10/28/1999	Seed	Date of Count = 11/5/1999	tment =				ını	Rep 3	٥		0	0	0	-	0	Count = 1	tment -	0	٥	0				•
Treatment		Date of	: from Trea				1st Count	Rep 2 Rep 3	•	0	0	0	0	0	0	Date of	from Trea	0	•	0	0	0	•	0
			Elapsed Time from Treatment -				-	1	0	-	•	٥	0	0	9		Elapsed Time from Treatment -	٥	0	0	0	•	-	0
Weed Seed: Cyperus exculintus			<u> </u>		_			╁	Control 0 ppm, 0% Enudsifier	Oppm, 5% Enuitsifier	0 ppm, 50% Enulsifier	NEW WED 500 ppm, 5% Emulsifier	500 ppn. 50% Enulsifier	1000 ppm, 5% Emulsifier	1000 ppm, 50% Emulsifier	一人名 化 经 河 的复数		Control U ppm, 0% Emulsifier	0 ppm, 5% Emulsifier	0 ppm, 50% Enudsifier	OLD MED 500 ppm, 5% Emulsifier	OLD NEED 500 ppm, 50% Emulsifier	1000 ppm, 5% Emulsifier	OLD SEED 1000 ppm, 50% Emulsifier
Weed Seed:							:			- 1	NEB NEED	NEW NEED	NEW SELED	NEW NEED	NEIL SEED		•	- 1	- 1	OLD SEED	OLD SEED	OLD SEED	OLD SEED	OLD SEED

NEW SEED Anova: Single Factor

No Significance

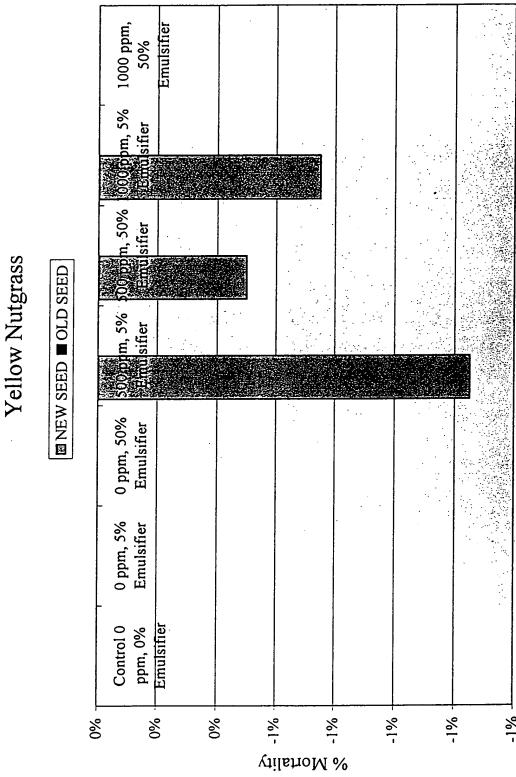
OLD SEED

No Significance

0.9875 0.000625 0.995 1E-04 0.9925 9.1667E-05 3.95 3.98 3.97 SUMMARY

ANOVA Source of Verietion	SS	10	WS	_	P.value	Fort
Between Groups Within Groups	0.000583	9 7 7	9.88E-05 0.000117	9.88E-05 0.84693878 0.000117		2.572712
Total	0.003043	6				

% Mortality of New Weed Seeds Over Control Yellow Nuterass



Treatment

TCD 13 Chloropicrin EC - Lab Tests for Weed Seed Mortality YELLOW SWEET

CLOVER

Mortality Control Above **%91**-28% %9-**%** %0 2nd Count at 12 Days %96 100% **100%** 100% % 00 100 100% % % %86 %96 %96 93% 920. % 00 100 %26 <u>%</u> 95% %0% % ž 83% %6 2nd Count Rep 2 % 00 10 , 678 %001 %26 % 00 1 % 95% %86 %68 88% 8 8 (% Mortality) 80 % 80 100 %96 % 75% %16 95% 93% %6 at 8 Days 1st Count Mean %06 % 20% **%96** %66 97% 100% %001 % % % % 001 95% %% %4.6 93% %86 %00! 97% **%**001 100% 100% %88 **88**% %86 97% 1st Count 100% %26 100% 300 % 001 %56 %68 %86 **88**% %66 300° 300° 97% %96 72% %\$6 % 66 97% 93% % % 88% Date of Count = 11/9/1999 Elapsed Time from Treatment - 12 Days 8 Number of Seeds/Dish = Rep 3 2nd Count Rep 2 Seed Germination Counts Rep | 4 2 Treatment Date = 10/28/1999 Date of Count - 11/5/1999 Date of Count = 11/8/1999 11 Days Elapsed Time from Treatment - 8 Days Rep 4 Elapsed Time from Treatment Rep 3 Ist Count Rep 2 25 Control 0 ppm, 0% Enulsifier O ppm, 5% Enulsifier Control 0 ppm, 0% Emulsifier 1000 ppm, 50% Emulsifier Weed Seed: Afelilotus indica 1000 ppm, 50% Linulsifier 500 ppm, 50% Finalsifier 1000 ppm, 5% Emulsifier 1000 ppm, 5% Emulsifier 500 pan, 50% Emilsifier 500 pan, 5° o linudsifier 500 ppm, 5% Emulsifier O 14m. 50% o Connessifier 0 ppm, 50% Emulsifier Opan Solimitsifier **Treatment** NEW SEED NEW NEED NEW SEED WEIL SEED OLD SEED OLD SEED NEW SEED NEW MED OLD SEED OLD SEED NEW SEED OLD SEED OLD SEED OLD SEED

Anova: Single Factor **NEW SEED**

SUMMARY

SIGNIFICANT DIFFERENCE @ 99%

Anova: Single Factor OLD SEED

SIGNIFICANT DIFFERENCE @ 99%

0.985 3.33332-05 0.985 0.00083333 0.905 0.00083333 0.003425 0.9875 3.88 SUMMARY Groups Row 1 Row 2 Row 4 Row 6 Row 6 Row 6

Variance 0.0041 0.0024687 0.0031333 0.0117687 0.0002 0.00024687

0.86 0.905 0.97 0.96 9925

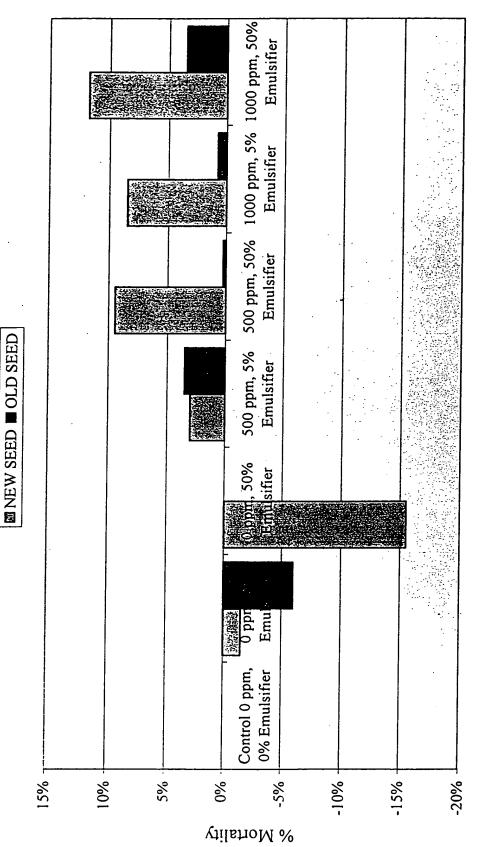
23.88 23.88 23.88 29.88 29.88

Row 1 Row 2 Row 3 Row 5 Row 6 Row 6

ANOVA							
Source of Vanation	SS	σį	, MS	Ė	P-value	Font	
Between Groups Within Groups	0.20865	2 °	6 0.034442 21 0.00348	6 0.03442 9.8977078 3.16E-05 3.811749 21 0.00348	3.16E-05	3.811749	

ANOVA						
ource of Vans	SS	₽	MS	ų.	P.value	Fall
Between i	0.02422	ø	0.00404	0.00404 5.281831484	0.00188	3,81175
Within Gr 0.01805	0.01605	2	21 0.00078			
Total	7	3				

% Mortality of New Weed Seeds Over Control Yellow Sweet Clover



Treatment

T ... 343.7 Chloropicrin EC - Lab Tests for Weed Seed Mortality
ISARNYARD CIRASS
Weed Seed Dehinoples

Weed Seed; Echinochloa crusgalli		Treatn	rent Date =	Treatment Date = 10/28/1999		Number of Seeds/Dish =	eds/Dish =	100										
			See	Seed Germinati	ation Counts	unts							(% Mortality)	rality)				
		Dal	e of Count	Date of Count = 11/5/1999		Date	Date of Count = 11/9/1999	6661/6/11				_	_				_	
	Elapsed	Time from	Elapsed Time from Treatment	8 Days	Elapsed 7	Elapsed Time from Treatment = 12 Days	reatment =	12 Days										
													_					,
												•	,					_
		St	1st Count			2nd Count	, on o			7 101	•	<u>s</u>	1St Count		-		2nd Count	
Treatment Solution	Rep 1	Rep 2	Rep 3	Rep 4	Rep I	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2 —		Rep 4	Mean	Ren	Znd Count	_	Bend Men	ys Control
Control 0 pan, 0% Emulsifier	90	100	88	4	82	801	ጿ	83	%	%	ル	┞	18%	╫		╢	┸	ì
0 ppm, 5% Emulsifier	10	86	97	66	8	8	8	8	%06	5%	35	<u> </u>	24%	٤	è	+	1	0/0
0 pan, 50% Emulsifier	9,5	100	15	8	46	8	2	ğ	%	કે	85%	8	35%	ž	٤	+	9/5	1.
500 ppm, 5% Unmisitier	7	οc	68	7.0	001	65	8	88	57%	0,0). =	21%	25%	: 8	3 2	╀	+	,000
Sto pan, Str. Linulsitier	=	٦	.c.	100	(15:	2.3	25	901	0 0(1)	o de c	%S%	°()	62%	10.7	770.	╀	1	200
1000 pyn, 5% Emulsifier	ᄌ	€	\$6	86	31	93	95	95	92%	%56	2%	2%	49%	, % (%)	į,	╀	\perp	7691
1000 ppm, 30% Linuisifier	7	2	12	32	81	8	7	34	%85	84%	%88	%89	77%	19%	95%	╀	ļ	%(9
		Dat	e of Count	Date of Count = 11/8/1999													ļ	200
	Elapsed	Time from	Elapsed Time from Treatment - 11 Days	11 Days														
Control 0 ppn, 0% Emulsifier	80	95	100	100	86	- 6	100	100	20%	2%	%	%0	%9	2%	3%	%0	%6 %0	700
0 ppm, 5% Emulsifier	3	<u>8</u>	8	8	8	20	001	100	%0	%	%	%	%	8	8	╀	\perp	%,
0 pan, 50% Enudsifier	5	8	8	8	8	8	<u>8</u>	100	3%	2%	%!	%	3%	%	%	╀		2%
500 ppm, 5% Emulsifier	S	8	28	6	S	93	95	17	%0\$	2%	2%	%16	38%	50%	%	╀		37%
500 ppm, 50% Emulsifier	8	8	68	32	8	8	95	95	%1	7%	11%	8%	%9	%	8	╀	L	3
1000 ppm, 5% Entursifier	ş	<u>s</u>	8	22	88	8	<u>8</u>	28	54%	%0	7%	%08	34%	15%	%	╀	L	20%
1000 ppm, 50% Enuisiner	93	æ	82	8	8	ğ	35	93	7%	15%	%81	10%	12%	%	%9	├	L	3%
!				SIGNIFICANT D	T DIFFERE	DIFFERENCE @ 99%			OLD SEED	G.		2	No Significance	90				%(X
Anova: Single Factor									Anova: Single Factor	ile Factor			ı					

OLD SEED Anova: Single	OLD SELD Anova: Single Factor			No Significan
SUMMARY				
Groups	Count	engs S	Average	Vanance
Row 1	4	800	8	9000
Row 2	4	0	0	0
Row 3	4	0	0	0
Row 4	4	1.45	0.3825	0.140225
Row 5	4	<u>o</u>	0.025	ö
Row 6	4	0.87	0.2175	0.117225
Row 7	4	0.19	0.0475	0.0475 0.000891667

0.08 0.0072 0.05 0.01 0.025 0.087 0.0825 0.00225 0.4825 0.13075833 0.215 0.10026867

0.24 0.25 0.25 1.83 2.7

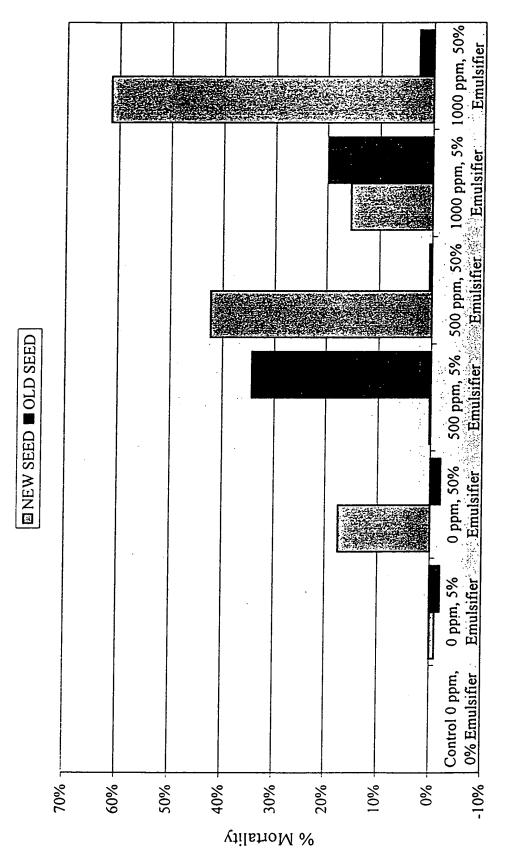
Row 2 Row 3 Row 6 Row 6 Row 6

SUMMARY

ANOVA						
Source of Vanation	SS	₽	WS	2	Avalue	Foot
Between Groups Within Groups	1.389036 1.62125	2.8	0.231508	2.99668928	0.028178	10
Total	3.010286	22				

ANOVA						
Source of Variation	SS	jþ	WS	ų	P.value	į
Between Groups Within Groups	0.48954	2,8	0.07828	0.07828 2.110372725 0.03708	0.09515	2.57271
Total	Total 1 24827	8				

% Mortality of New Weed Seeds Over Control Barnyard Grass



Treatment

CO43.3 Chloropicrin EC - Lab Tests for Weed Seed Mortality IRINDWELLD

				_				_	_	×			-	_	_	-	_	_	-		-		337
			•	%	Mortality	Above	Control		%0	%95	23%	22%	30%	%99	72%		* ***	Section Section	months of S	经有限的债券 医外线	*3 -14 (A) .9 (I	Transfer Man	
						2nd Count	at 12 Days	Mean	19%	74%	42%	41%	10%	85%	90%		nt per fight.	Spirit Cale	48 18 14 15 15 1	Mark Shirt Same	CANADA STATE		
								Rep 4	22%	85%	35%	35%	110.0	8.10.8	986	14.94	the same.	100	高級運	171, 201	18 P. W.		
							unt	Rep 3	17%	73%	45%	48%	26%	90%	93%	8/18/2 PM	San San	100	Sec. 10.	*:: ::::	Vitable		
							2nd Count	Rep 2	%91	%17	37%	370%	K7º'6	80%	8.5%	(IL)	12. K. Co. 1	TO VALUE	in the second	HAN KE	1200		
	tality)							Rep 1	20%	11%	40%	16%	380.0	800	93%		· State Sept.	S. S. Mark	TATABLE IS	1.00	Sept. 20		
	(% Mortality)					st Count	at 8 Days	Mean		81%	84%	%88	%18	%06	%56	1000	· · · · · · · · · · · · · · · · · · ·	A. 6. 6. 6. 6.	Comment Newscon	Market Sector	A. 188		
							<u> </u>	Rep 4	72%	%98	84%	93%	83%	88°.º	%96		海田市	建筑线 (电弧形态	Selection (1. 1			10.40
							ıı	Rep 3	11%	21%	85%	%98	78%	95%	97%			化建程 洋	S. SPANNEL S	11 A 12 W	多种物质	1	
							1st Count	Rep 2	80%	78%	85%	84%	87%	85%	92%		STATE STATE	Strait &	ALTHUR	*(1,500)us		el a la ser	
								Rep 1	85%	84%	%18	%88	75%	95%	%\$6		Sec. 15		1. TANK	Altered or		rok James	
001	-	6661/	Days					Rep 4	78	81	9	65	98	16	10	3.73	1	A. 1.	THEY S	A. 55			
		11/5 mt = 11/5	nt = 12				_	_]	7	55	55	74	01	,		18. S.	A	14. A	特別			
Number of Seeds/Dish		Date of Count = 11/9/1999	m Treatm				2nd Count	2 Rep 3	83	27			_		.]		3.44 A.144	A 10	4.5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Number	n Counts	_	apsed Time from Treatment - 12 Days				7	Rep 2	84	50	63	63	13	30	115		HERE FOR BAR	1. 10 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		排作了	なる	11	
•	nation (苗					Rep	80	29	15	54	62		7			· (1)	加州	1. Sept. 16			
Treatment Date = 10/28/1999	Seed Germinatio	Date of Count = 11/5/1999	8 Days					Rep 4	28	4	91	7	٤١	71	•7		Anti- () () () () () () () () () (の方法と	alogo desides addición de	を行る	(488)		ė.e
1 Date =	Sec	f Count =	satment =				ount	Rep 3	23	23	18	14	33	\$	3		A LANGE TO SECTION	Sec. Sec.	Sept. Sept.	Spirite	dalla la	401	
Treatmen		Date	e from Tr				1st Count	Rep 2	50	22	15	91	13	15	×		Sec. 16.	5. 1. 18. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	C 485.35	Per Back	表面影		
			Elapsed Time from Treatment -					Rep 1	15	91	61	12	25	×	۶			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	\$ \$ \$ \$ \$ \$ \$	自由和器	134 WALD		
<u>: ج</u> .			<u></u>					_	fier						_		ifer:		Section 3.	11 242	対象が		
SH2.LID								Solution	19% Emulsi	sifier	dsifier	mbifier	nulsifier	mulsifier	i:mulsifie		% Emuls	sifier	ulsifier	nulsifier.	mulsifier	HABITE	
supusyo							Treatment	Treatment Solution	Control 0 ppm, 0% Emulsifier	O ppur 50's Emulsifier	O ppin, 50% Emulsifier	500 ppm, 5% Unulsifier	500 ppm, 50% Enulsitier	1000 ppm, 5% Untulsifier	tran ppm. Sue timulsifier		Control 0 ppm, 0% Emulsifier	O ppm, 5% Emulsifier and Section	O ppm, 50% Emulsifier in servery.	500 ppm, 5% Emulsification of the location of the particular series	m; 50%:E	W659	
. (Trea	_					Γ		$\overline{}$	X 10 4 13					S00 pp	10001	10001
Weed Seed: Converbility arrentsis								Seed Age	NEIVNEED	NEWSTED	AER MEED	ATH SEED	OLEN JEIN	ALIN MAD	WHIT MEED		CHBS CTO	CHRS CTO	OID SBBD	OLD SABD	OLD SBBD - 500 ppm; 50% Emulsification 25,2% 24,20% 34,40% 44,40%	COLD SERECT 1000 ppm 55 With this in of the	
€	L								Ľ	<u>_</u>	_	<u> </u>	Ľ	<u> </u>		1	٧		Ľ	<u>Ľ</u>	Ľ	×	

NEW SEED Anova: Single Factor

SIGNIFICANT DIFFERENCE @ 99%

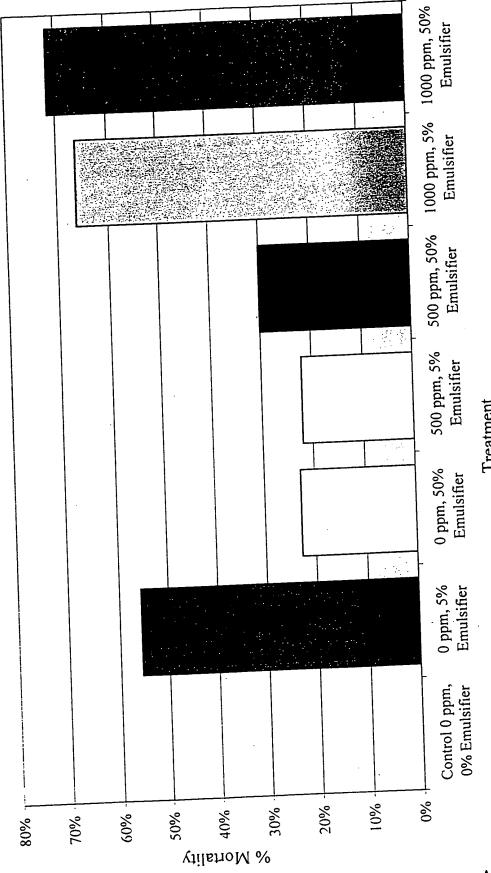
UMMARY					
Gro	sd:	Count	Sum	Average.	Variance
low 1		4	0.75	0.1875	0.0007583
Row 2		4	2.87	0.7425	
Row 3		4	1.68	0.415	0.0043887
Ow 4		4	5.	0.4075	
Row 5		4	1.95	0.4875	
20w B		4	3.4	0.85	
30w 7		•	3.61	0.9025	

ANOVA						
Source of Variation	SS	ò	MS	F	P-value	F CUI
Between Groups	1.689021	0	0.281504	23.248748	2.97E-08	3.811749
Within Groups	0.254275	21	0.012108			
Total	1 943296	77				

FIG. 116.

that then offer by the the true of the true and their the true the true that the true the true that

% Mortality of New Weed Seeds Over Control Bindweed



Treatment